

ALEXANDRA BERKE

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EDUCATION

Brown University Providence, RI

B.A. Mathematics

B.A. Computer Science

Transferred to Brown Jan 2011; Graduated May 2013

GPA: 3.8/4.0

University of Pennsylvania Philadelphia, PA

Dean's List 2010

Sep 2009 - Dec 2010

GPA: 3.9/4.0

COMPUTER SCIENCE WORK EXPERIENCE

Thinkful Full Stack Developer

New York City, Summer 2013

- Primarily worked with *python*, *Flask*, *Javascript*, *Angularjs*, *HTML5*, *LESS*
- Projects involved writing user model with secure account creation, login, maintenance, and user authentication

HackNY Fellowship Fellow

New York City, Summer 2013

- Fellowship involves lecture series, organizes hackathons

Vistaprint Software Engineer Intern

Lexington, MA, Summer 2012

- Integrated new *HTML5* features into user file uploading interface.
- Features included CORS, Drag and drop image uploading, and replacing dependency on Flash by using FileAPI, FileReader and FileList

Brown Computer Science

Head Teaching Assistant: Linear Algebra Computer Science course

Brown University, Spring 2013

- Held review sessions and office hours, proctored labs, wrote/graded assignments
- Managed team of Teaching Assistants and essentially ran the course

Assistant in Curriculum Writing

Brown University, Summer 2012

- Assisted Prof. Philip Klein in developing linear algebra computer science course, towards publishing textbook and exporting curriculum to other universities and Coursera
- Helped plan curriculum and write text book, wrote *python* programming labs that implement linear algebra concepts, wrote problem sets, and created examples to aid textbook

RELEVANT COURSE WORK

Information Retrieval and Web Search

C, python, Git, SQL

- Wrote search engines, parsers, and document classification tools, etc

Entrepreneurship Team Software Engineer

Django, HTML5, Javascript, CSS

Computer Networks

C, extensive use of sockets, python

- Wrote IP transport layer, wrote TCP network layer protocol, created app to tether internet access through smartphone to laptop without wifi connection, etc

Introduction to Software Engineering

Java, C, Git

- Wrote autocomplete program, visualized mapping/routing program, etc

Creating Modern Web Applications

HTML5, Javascript, CSS, PHP, SQL

- Developed prototype for mobile application for company *SAILTHRU*, etc

STUDENT ACTIVITIES & VOLUNTEER EXPERIENCE

Environmental House Coop Treasurer

Brown University, Sep 2011 - 2013

- Manage finances for a student-run, local-foods coop

Socially Responsible Investment Fund

Brown University, Sep 2011 - 2012

- Group invests \$30k of Brown's endowment in socially responsible companies

Brown Climate Action Fund

Brown University, 2011

Harvard Square Homeless Shelter Volunteer Coordinator

Cambridge, MA 2006 - 2009

Cambridge Youth Soccer Head Coach for U-12 girls team

Cambridge, MA, Mar - Jun 2008